Study Number: R92025B

Test Type: RACB Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

R22: Cross Generational Summary of Litters Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

R92025B

Both

See web page for date of PWG Approval

Date Report Requested: 10/02/2018 Time Report Requested: 09:38:39

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		F0 Treatment Groups (ppm)				F1 Treatment Groups (ppm)		
	Litter ID							
		0	750	2500	5000	0	750	2500
Mating Pairs ^a		22	23	20	21	39	41	35
Number of Litters/Pair ^{b,c}		2.6 ± 0.2	2.9 ± 0.1	2.4 ± 0.2	0.1 ± 0.1	2.5 ± 0.1	2.5 ± 0.1	2.3 ± 0.1
Number of Pairs without a Litter ^d		1	0	2	18	1	2	1
Live Pups/Pair ^{e,f}		36.7 ± 1.8	36.8 ± 1.1	24.4 ± 1.8	0.7 ± 0.5	29.7 ± 1.9 *	27.0 ± 1.8 **	20.3 ± 2.2
Average Live Litter Size/Pair ^{f,g}	Α	14.0 ± 0.5	12.7 ± 0.6	8.3 ± 1.0	2.2 ± 2.0	10.8 ± 0.8 **	9.7 ± 0.6 **	7.9 ± 0.7
Average Live Litter Size/Pair ^{f,g}	В	13.6 ± 0.5	12.7 ± 0.5	8.5 ± 0.6	0.5 ± 0.5	13.6 ± 0.6	11.9 ± 0.6	9.8 ± 0.8
Average Live Litter Size/Pair ^{f,g}	С	12.2 ± 0.8	12.4 ± 0.5	9.8 ± 1.2		9.2 ± 0.7 **	8.8 ± 0.6 **	8.5 ± 0.9
Average Live Litter Size/Pair - All Litters ^{f,g,h}		13.2 ± 0.4	12.6 ± 0.3	9.0 ± 0.7	0.6 ± 0.5	11.4 ± 0.4 **	10.0 ± 0.5 **	8.2 ± 0.7
Average Live Litter Size/Pair ^{f,i} (Excluding non-viable litters)	Α	14.0 ± 0.5	12.7 ± 0.6	8.9 ± 0.9	5.5 ± 4.5	10.8 ± 0.8 **	9.7 ± 0.6 **	8.0 ± 0.7
Average Live Litter Size/Pair ^{f,i} (Excluding non-viable litters)	В	13.6 ± 0.5	12.7 ± 0.5	8.5 ± 0.6	3.0	13.6 ± 0.6	12.2 ± 0.6	9.8 ± 0.8
Average Live Litter Size/Pair ^{f,i} (Excluding non-viable litters)	С	12.2 ± 0.8	12.4 ± 0.5	10.4 ± 1.1		9.2 ± 0.7 **	8.9 ± 0.6 **	8.5 ± 0.9
Average Live Litter Size/Pair - All Litters ^{f ,h,} (Excluding non-viable litters)	i	13.2 ± 0.4	12.6 ± 0.3	9.2 ± 0.6	2.0 ± 1.0	11.4 ± 0.4 **	10.1 ± 0.5 **	8.3 ± 0.6

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LEGEND

Data are displayed as mean ± SEM

Comparisons are between generations for each dose group. Only mated pairs included in the analysis.

Dams that died before littering were not removed from the "Average live litter size/pair" endpoints that were specific to litter A,B, or C. For example, if an animal died before littering on C the animal was still included for litters A and B.

Pairs with live litter size of 0 excluded.

F0 5000 ppm dose group pairs were only bred two times to produce Litters A and B and this group was not included in the statistical tests.

** FND OF REPORT **

^aPairs that were bred three times to produce Litters A, B, and C

^bPair may have 0,1,2 or 3 litters. Pairs not littering or that have no live pups are counted as having 0 litters. Animals that died prior to litter A,B or C not included.

^cGeneralized linear mixed model using multinomial distribution and maternal dam (F1 generation) as random effect and with Hommel p-value adjustment.

^dMating pairs that did not produce a single live litter over the course of three breedings

eTotal number of live pups per pair over the three breedings. Animals that died prior to littering A, B or C not included.

¹Non-trend multiple comparisons used Datta-Satten modified Wilcoxon test with a Hommel p-value adjustment.

⁹Pairs with live litter size of 0 included.

^hLive litter size averaged over each mating pair used in the analysis. Animals that died prior to littering A, B or C not included.

^{*} Statistically significant at P <= 0.05

^{**} Statistically significant at P <= 0.01